## Schreiber, David

From:

Steadman, David (AU1652) Monday, May 09, 2005 1:25 PM

Sent: To:

Schreiber, David

Subject:

10/071,751 sequence search request

NAME: David Steadman

AU: 1652

Date:05/09/05

Office: Remsen 2B05 Mailbox: Remsen 2C70

## Please search the following sequence(s) in commercial and interference databases:

- 1) Standard search of SEQ ID NO:62 against amino acid databases.
- 2) Standard search of SEQ ID NO:62 against nucleic acid databases.
- 3) Score over length search of SEQ ID NO:62 with a minimum size of 6 and a maximum size of 155. Please provide only 100% hits.

Please save results to diskette.

Thank you very much.

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## SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.